## WASHING CONTAINER FOR A DISHWASHING MACHINE

The present invention relates to a washing container for a dishwashing machine, which container comprises several parts connected to one another.

DE-U-75 20 122 discloses a container for a dishwashing machine. This known container comprises a cover part Ushaped in plan view to which a floor and lid part are joined. The floor and lid part are attached to the cover part by way of folded joints. This type of a container requires structure of considerable In addition, the manufacturing expense. variation options for a washing container to be constructed matching special, specific applications are strongly limited.

The object of the invention is to design a washing container of the type initially described such that the washing container can be manufactured more easily without considerable expense and in its structure can correspondingly meet the requirements set by the design form of a dishwashing machine.

The solution to this task according to the present invention is that a base frame is provided, in which or around which at least one cover part, comprising side parts connected to each other at an angle, attached. Assembling introduced or the container is substantially simplified by introducing or attaching the cover part in or on the base frame. Furthermore, if the washing containers are of different heights then the same base frame can always be used. designed Only the cover part be with must corresponding height. The invention has allowed a washing container of the type initially described to be designed such that the washing container

manufactured more easily and in its structure can correspondingly meet the requirements set by the design form of a dishwashing machine.

Further simplification of assembly results from the cover part comprising three U-shaped side parts joined to one another. Due to such a U-shaped cover part a washing container can be manufactured more easily, in that another side part, completing the side part missing on the U-shaped cover part is provided on the base frame.

Advantages in manufacture arise from the base frame being designed monobloc and the other side part being formed on the base frame.

A tub-shaped washing container can also be realised by the cover part being designed as a peripherally closed rectangle. At the same time it can be advantageous for manufacturing and costing reasons that the rectangular cover part is formed from L-shaped side part units. Such L-shaped side part units are themselves formed by two side parts 6 joined together at an angle.

Assembly space can be spared if the other side part is fitted with additional functional elements, such as receptacles for rinsing and/or cleaning agents or a device for water softening. Such outfitting of the other side part with additional functional elements is especially simple to achieve if this other side part comprises plastic. Of course, the base frame and the other side part can also be manufactured entirely from plastic material.

It is also advantageous if the base frame is fitted with a floor part designed as a filter.

For space reasons it is also effective for a heat exchanger to be integrated at least in one side part. Due to such a side part designed as heat exchanger not only is space saved, but there is also a saving in assembly costs, because separate assembly of a heat exchanger standard in dishwashing machines is dispensed with. In addition, there is the possibility designing several side parts as heat exchangers, increasing the capacity for heat recovery.

The invention will now be explained in greater detail with reference to the embodiment illustrated in the diagram.

Reference numeral 1 designates a base frame which has a floor part 2 configured as a filter. Formed on one narrow side 3 of the base frame 1 on the floor part 2 are two corner stays 4 extending vertically upwards. The corner stays 4 have an L-shaped or angular cross-section. According to the present invention a base frame 1 is provided, in which or around which at least one cover part, comprising side parts connected to each other at an angle, may be introduced or attached. By means of the abovementioned cross-section a guide and also bracket for a cover part 5, which can be attached to the base frame 1, is formed by the corner stays 4, as illustrated in the embodiment. The cover part can also be attached externally to the base frame.

The cover part 5 comprises three U-shaped side parts 6 connected to one another. To realise a peripherally closed, tub-shaped washing container another side part 8 is provided on the narrow side of the base frame 1 opposite the U-opening of the cover part 5. The other side part 8 can be designed as a separate component and be attached to the base frame 1 in corresponding fashion. But it can also be effective to design the

base frame 1 and the other side part 8 as a monobloc plastic component.

A tub-shaped washing container can also be produced by the cover part being formed form two L-shaped side part units. Such L-shaped side part units then each comprise two side parts connected to one another at an angle. For manufacturing reasons such a structure of the washing container can be more favourable.

The other side part 8 is provided with retention elements 9, which can be formed by manufacturing the other side parts 8 from plastic in corresponding fashion. By means of these retention elements additional functional elements, such as containers for rinsing and/or cleaning agents or even a device for water softening, can be attached to the other side part 8. If the washing container is designed as a container which can be withdrawn from the housing of dishwashing machine, as indicated by the slide grooves 10 provided on the base frame 1, then the additional functional assembled parts can be outside dishwashing machine housing, which is easily possible due to the free access to the other side part 8.

One or more side parts 6 of the cover part 5 can be designed as heat exchanger. Again, separate assembly of such a heat exchanger standard in dishwashing machines does not apply. Also, less space is required for accommodating a heat exchanger. Due to several side parts 6 being designed as heat exchangers the degree of heat recovery and/or condensation effect in a drying procedure is substantially heightened.

The modular structure of the washing container also enables, when this seems effective, different materials to be used for the base frame 1 and the cover part 5.

The base frame 1 can effectively comprise plastic and the cover part 5 can comprise stainless steel or any other corrosion-resistant material.

Due to the modular structure of the washing container alterations to the dimensions of the washing container can be carried out more simply and more costeffectively. Various heights for the washing containers can be achieved e.g. simply by corresponding changes to the dimensions of the cover part 5.

It has been possible with the invention to design a washing container of the type initially described, such that the washing container can be manufactured more simply and without considerable expense and in its structure can correspondingly meet the requirements set by the design form of a dishwashing machine.